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<b>Catalog Number:</b> MO25039	<b>Host:</b> Mouse
<b>Product Type:</b> IgG <sub>2b</sub> . Clone: 8C8	<b>Species Reactivity:</b> Human

<b>Immunogen Sequence:</b> Full-length proHD5 protein. [Swiss-Prot# Q01523] The propeptide is the full-length protein. In the mature form, it is cleaved at residue 63 (alanine).	<b>Format:</b> 0.1 ml IgG purified Mouse ascites in tris-glycine, 150mM NaCl buffer with 0.05% sodium azide as a preservative. Concentration: 2.35 mg/ml.
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**Applications:** Immunohistochemistry: 5-10 ug/ml (Paraffin-embedded only)

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

**Storage:** Store frozen. Aliquot as undiluted antisera and immediately place at -20°C. Antisera may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20°C. Repeated freeze/thaw cycles compromise the integrity of the antiserum.

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### Application Notes

This antibody is specific for HD5. It does not cross-react with HD6, lysozyme or sPLA2.

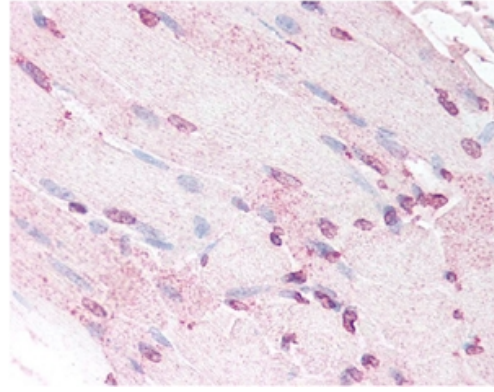
#### Description/Data:

Human neutrophil alpha-defensins (also designated HNP5) are small, cationic, cysteine-rich antimicrobial proteins that play important roles in innate immunity against infectious microbes such as bacteria, fungi and enveloped viruses. Alpha-defensins are synthesized as inactive precursors and are activated by proteolytic cleavage by MMP-7. Paneth cells in small intestinal crypts secrete the alpha-defensins, which are also termed cryptidins in mice. Alpha-defensins 5 and 6 probably contribute to innate defense of the GI mucosal surface by protecting against microbial invasion in states of intestinal inflammation.

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*Image: Defensin 5 staining of Human skeletal muscle myocytes showing moderate nuclear and faint cytoplasmic staining.*



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[www.neuromics.com](http://www.neuromics.com)

Neuromics Antibodies • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail: [pshuster@neuromics.com](mailto:pshuster@neuromics.com)